SEQUENCE LISTING

<110> Istituto Di Ricerche Di Biologia Molecolare P. Angeletti S.P.A.
      Pallaoro, Michele
      Gallinari, Paola
      Altamura, Sergio
      Steinkuhler, Christian

<120> METHOD FOR IDENTIFYING HISTONE
   DEACETYLASE INHIBITORS

<130> ITR0053Y

<150> 60/530,540
<151> 2003-12-18

<160> 6

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 214
<212> DNA
<213> P21 minimal promoter

<400> 1
tgctggaact cggccaggct cagctggctc ggcgctgggc agccaggagc ctgggccccg 60
gggagggcgg tcccgggcgg cgcggtgggc cgagcgcggg tcccgcctcc ttgaggcggg 120
cccgggcggg gcggttgtat atcagggccg cgctgagctg cgccagctga ggtgtgagca 180
gctgccgaag tcagttcctt gtggagccaa gctt   214

<210> 2
<211> 37
<212> DNA
<213> Arfiticial Sequence

<220>
<223> PCR forward primer

<400> 2
taacggaaga tcttgctgga actcggccag gctcagc   37

<210> 3
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR reverse primer

<400> 3
actcggtggt accaagcttg gctccacaag gaactgactt cggc   44

<210> 4
<211> 5499
<212> DNA
<213> Artificial Sequence

<223> Plasmid p21m-BLA

<400> 4
```
gacggatcgg gagatcttgc tggaactcgg ccaggctcag ctggctcggc gctgggcagc   60
caggagcctg ggccccgggg agggcggtcc cgggcggcgc ggtgggccga gcgcgggtcc  120
cgcctccttg aggcgggccc gggcggggcg gttgtatatc agggccgcgc tgagctgcgc  180
cagctgaggt gtgagcagct gccgaagtca gttccttgtg agccaagct  tggtaccacc  240
atggacccag aaacgctggt gaaagtaaaa gatgctgaag atcagttggg tgcacgagtg  300
ggttacatcg aactggatct caacagcggt aagatccttg agagttttcg ccccgaagaa  360
cgttttccaa tgatgagcac ttttaaagtt ctgctatgtg gcgcggtatt atcccgtatt  420
gacgccgggc aagagcaact cggtcgccgc atacactatt ctcagaatga cttggttgag  480
tactcaccag tcacagaaaa gcatcttacg gatggcatga cagtaagaga attatgcagt  540
gctgccataa ccatgagtga taacactgcg gccaacttac ttctgacaac gatcggagga  600
ccgaaggagc taaccgcttt tttgcacaac atgggggatc atgtaactcg ccttgatcgt  660
tgggaaccgg agctgaatga agccatacca aacgacgagc gtgacaccac gatgcctgta  720
gcaatggcaa caacgttgcg caaactatta actggcgaac tacttactct agcttcccgg  780
caacaattaa tagactggat ggaggcggat aaagttgcag gaccacttct gcgctcggcc  840
cttccggctg gctggktt at tgctgataaa tctggasccg gtgagcgtgg gtctcgcggt  900
atcattgcag cactggggcc agatggtaag ccctcccgta tcgtagttat ctacacgacg  960
gggagtcagg caactatgga tgaacgaaat agacagatcg ctgagatagg tgcctcactg 1020
attaagcatt ggtaatctag agggccctat tctatagtgt cacctaaatg ctagagctcg 1080
ctgatcagcc tcgactgtgc cttctagttg ccagccatct gttgtttgcc cctcccccgt 1140
gccttccttg accctggaag gtgccactcc cactgtcctt tcctaataaa atgaggaaat 1200
tgcatcgcat tgtctgagta ggtgtcattc tattctgggg ggtgggggtgg ggcaggacag 1260
caaggggggag gattgggaag acaatagcag gcatgctggg gatgcggtgg gctctatggc 1320
ttctgaggcg aaagaacca  gctggggctc taggggggtat ccccacgcgc cctgtagcgg 1380
cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg accgctacac ttgccagcgc 1440
cctagcgccc gctcctttcg ctttcttccc ttcctttctc gccacgttcg ccggctttcc 1500
ccgtcaagct ctaaatcggg gcatccctt  agggttccga tttagtgctt tacggcacct 1560
cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt gggccatcgc cctgatagac 1620
ggtttttcgc cctttgacgt tggagtccac gttctttaat agtggactct tgttccaaac 1680
tggaacaaca ctcaaccctа tctcggtcta ttcttttgat ttataaggga ttttggggat 1740
ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa tttaacgcga attaattctg 1800
tggaatgtgt gtcagttagg gtgtggaaag tccccaggct ccccaggcag gcagaagtat 1860
gcaaagcatg catctcaatt agtcagcaac caggtgtgga aagtccccag gctccccagc 1920
aggcagaagt atgcaaagca tgcatctcaa ttagtcagca accatagtcc cgcccctaac 1980
tccgcccatc ccgcccctaa ctccgcccag ttccgcccat tctccgcccc atggctgact 2040
aatttttttt atttatgcag aggccgaggc cgcctctgcc tctgagctat tccagaagta 2100
gtgaggaggc ttttttggag gcctaggctt ttgcaaaaag ctcccgggag cttgtatatc 2160
cattttcgga tctgatcaag agacaggatg aggatcgttt cgcatgattg aacaagatgg 2220
attgcacgca ggttctccgg ccgcttgggt ggagaggcta ttcggctatg actgggcaca 2280
acagacaatc ggctgctctg atgccgccgt gttccggctg tcagcgcagg ggcgcccggt 2340
tcttttttgtc aagaccgacc tgtccggtgc cctgaatgaa ctgcaggacg aggcagcgcg 2400
gctatcgtgg ctggccacga cgggcgttcc ttgcgcagct gtgctcgacg ttgtcactga 2460
agcgggaagg gactggctgc tattgggcga agtgccgggg caggatctcc tgtcatctca 2520
ccttgctcct gccgagaaag tatccatcat ggctgatgca atgcggcggc tgcatacgct 2580
tgatccggct acctgcccat tcgaccacca agcgaaacat cgcatcgagc gagcacgtac 2640
tcggatggaa gccggtcttg tcgatcagga tgatctggac gaagagcatc aggggctcgc 2700
gccagccgaa ctgttcgcca ggctcaaggc gcgcatgccc gacggcgagg atctcgtcgt 2760
gacccatggc gatgcctgct tgccgaatat catggtggaa aatggccgct tttctggatt 2820
catcgactgt ggccggctgg gtgtggcgga ccgctatcag gacatagcgt tggctacccg 2880
tgatattgct gaagagcttg gcggcgaatg ggctgaccgc ttcctcgtgc tttacggtat 2940
cgccgctccc gattcgcagc gcatcgcctt ctatcgcctt cttgacgagt cttctgagc  3000
gggactctgg ggttcgaaat gaccgaccaa gcgacgccca acctgccatc acgagatttc 3060
gattccaccg ccgccttcta tgaaaggttg ggcttcggaa tcgttttccg gacgccggc  3120
tggatgatcc tccagcgcgg ggatctcatg ctggagttct tcgcccaccc caacttgttt 3180
attgcagctt ataatggtta caaataaagc aatagcatca caaatttcac aaataaagca 3240
tttttttcac tgcattctag ttgtggtttg tccaaactca tcaatgtatc ttatcatgtc 3300
tgtataccgt cgacctctag ctagagcttg gcgtaatcat ggtcatagct gtttcctgtg 3360
tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa 3420
```

```
gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct 3480
ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcggggaga 3540
ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc 3600
gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa 3660
tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc aggaaccgt  3720
aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa 3780
aatcgacgct caagtcagag gtggcgaaac ccgacaggac tataaagata ccaggcgttt 3840
ccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg 3900
tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc 3960
agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaacccccc cgttcagccc 4020
gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta 4080
tcgccactgg cagcagccac tggtaacagg attagcagag cgaggtatgt aggcggtgct 4140
acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt atttggtatc 4200
tgcgctctgc tgaagccagt taccttcgga aaaagagttg gtagctcttg atccggcaaa 4260
caaaccaccg ctggtagcgg tggtttttt gtttgcaagc agcagattac gcgcagaaaa 4320
aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa 4380
aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcac ctagatcctt 4440
ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac 4500
agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc 4560
atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc 4620
cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata 4680
aaccagccag ccggaagggc cgagcgcaga agtggtcctg caactttatc cgcctccatc 4740
cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc 4800
aacgttgttg ccattgctac aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca 4860
ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa 4920
gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca 4980
ctcatggtta tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt 5040
tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt 5100
tgctcttgcc cggcgtcaat acgggataat accgcgccac atagcagaac tttaaaagtg 5160
ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga 5220
tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc 5280
agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg 5340
acacggaaat gttgaatact catactcttc cttttcaat attattgaag catttatcag 5400
ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg 5460
gttccgcgca catttccccg aaaagtgcca cctgacgtc                        5499
```

```
<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR forward primer

<400> 5
cgcgcacatt tccccgaaaa gtgc                                          24

<210> 6
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR reverse primer

<400> 6
gcatttaggt gacactatag aatagggt                                       27
```